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B23Q11/00C  
Equivalents:

#### Abstract

In an industrial robot of the portal design, a crossbeam (7) is mounted on rollers so as to be displaceable in the Z direction, and a carriage (1) carrying the crossbeam (7) is mounted on rollers so as to be displaceable on a bridge (2) in the Y direction. The crossbeam (7) carries on two mutually opposite sides prismatic rails which serve as a running surface for the roller pairs of a roller guide in the carriage (1). Attached to the bottom end of the crossbeam (7), carrier or the like is a gripper apparatus for the workpiece or the like. The crossbeam (7) or the like is connected to a hydraulic balancing device consisting of a hydraulic cylinder (100) which is fixed to the carriage (1) and whose piston rod (102) is connected to the crossbeam (7) or the like.

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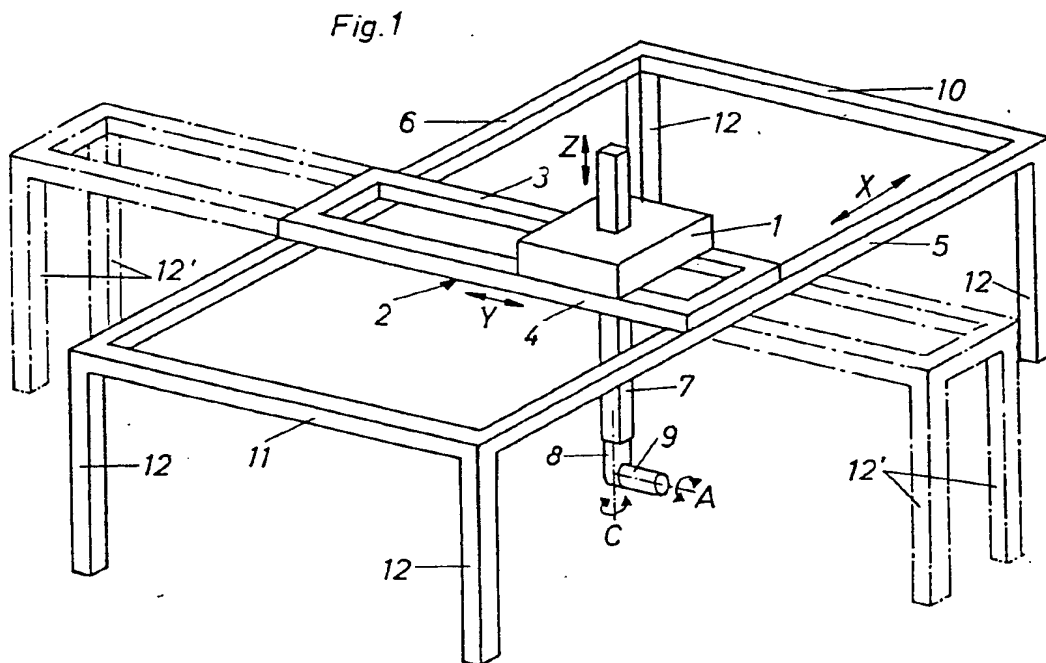
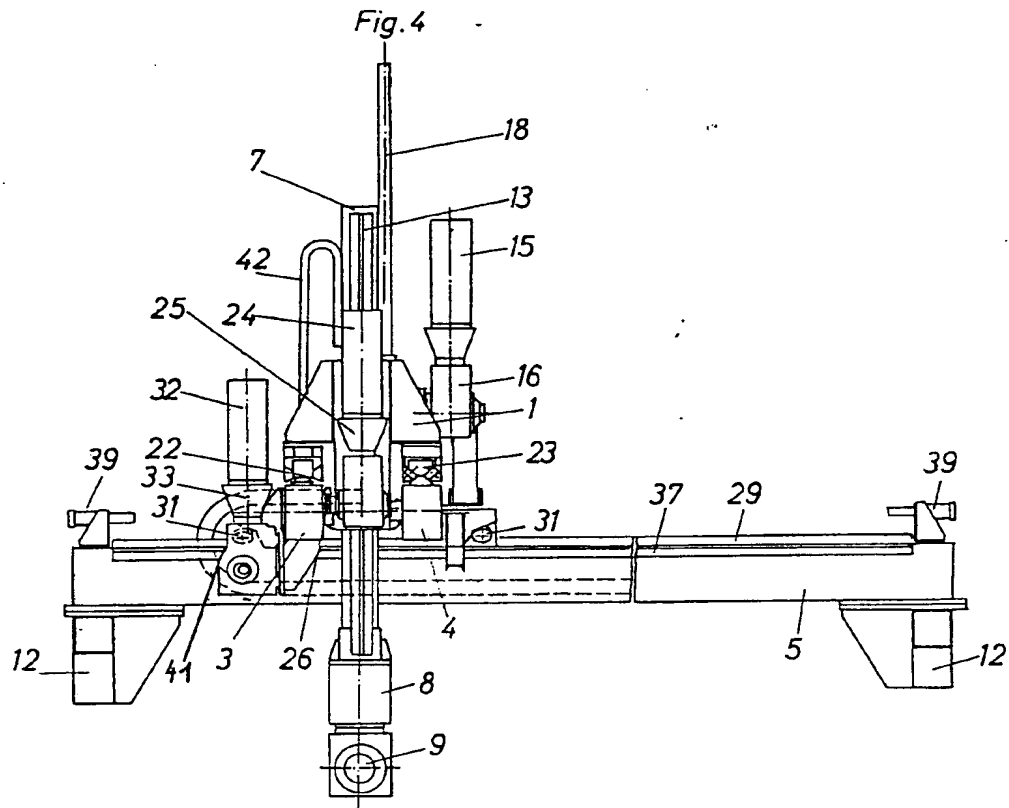
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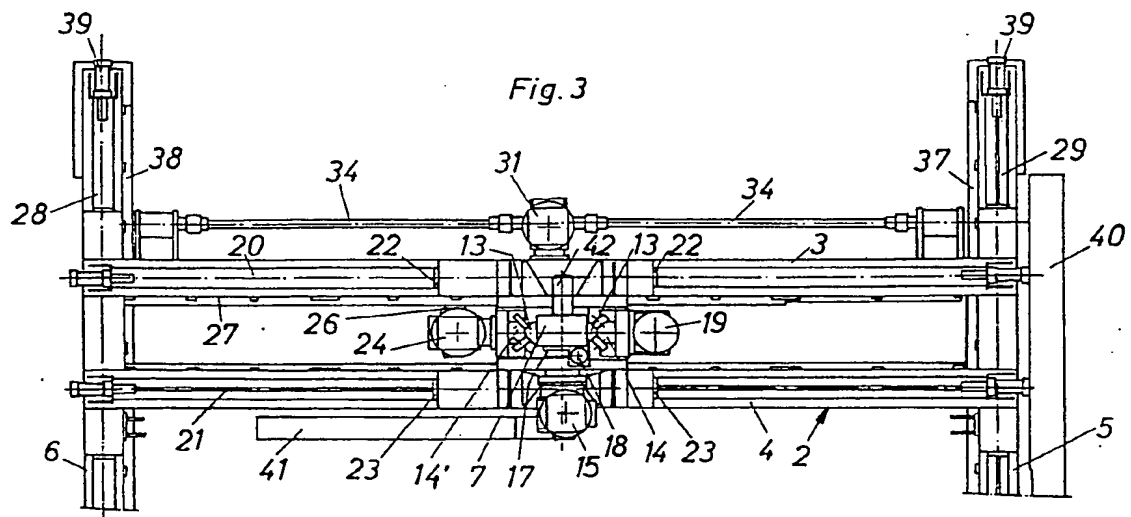
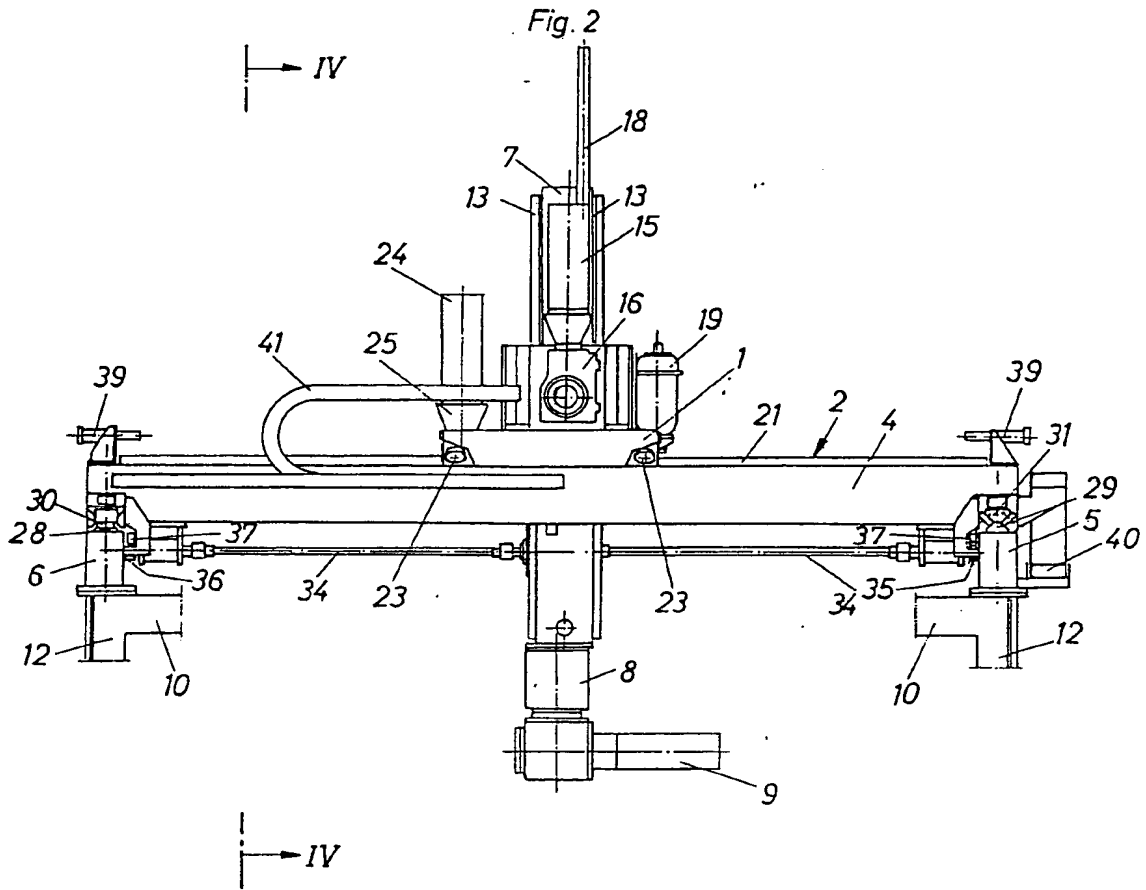


Fig.5

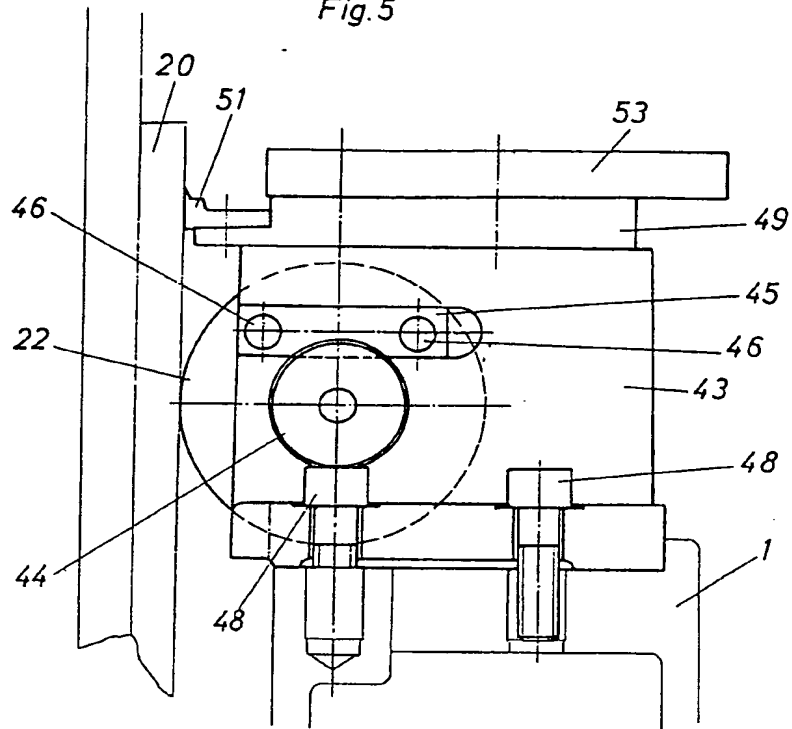


Fig.6

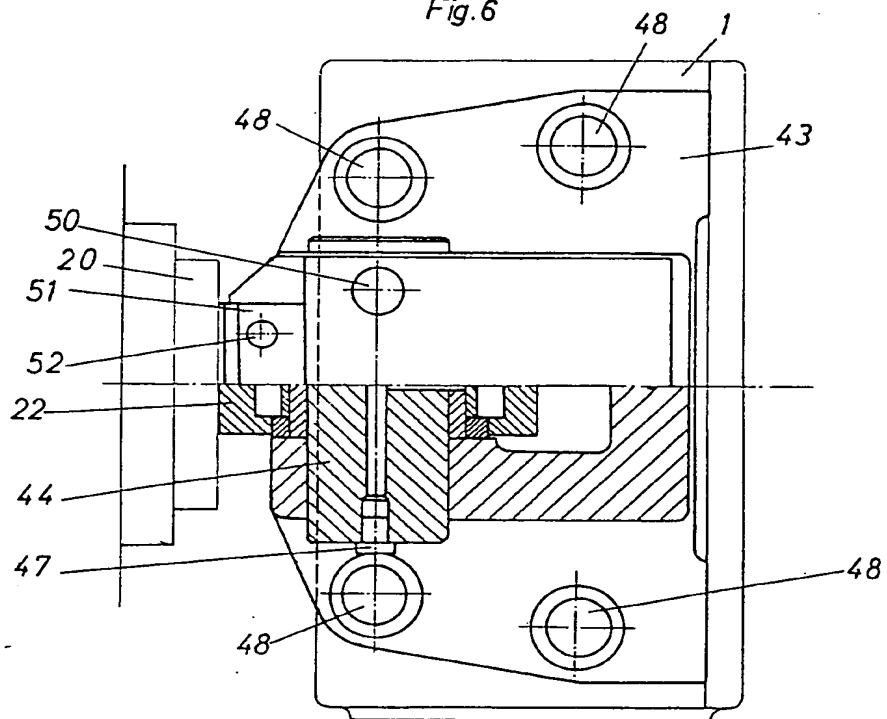


Fig.17

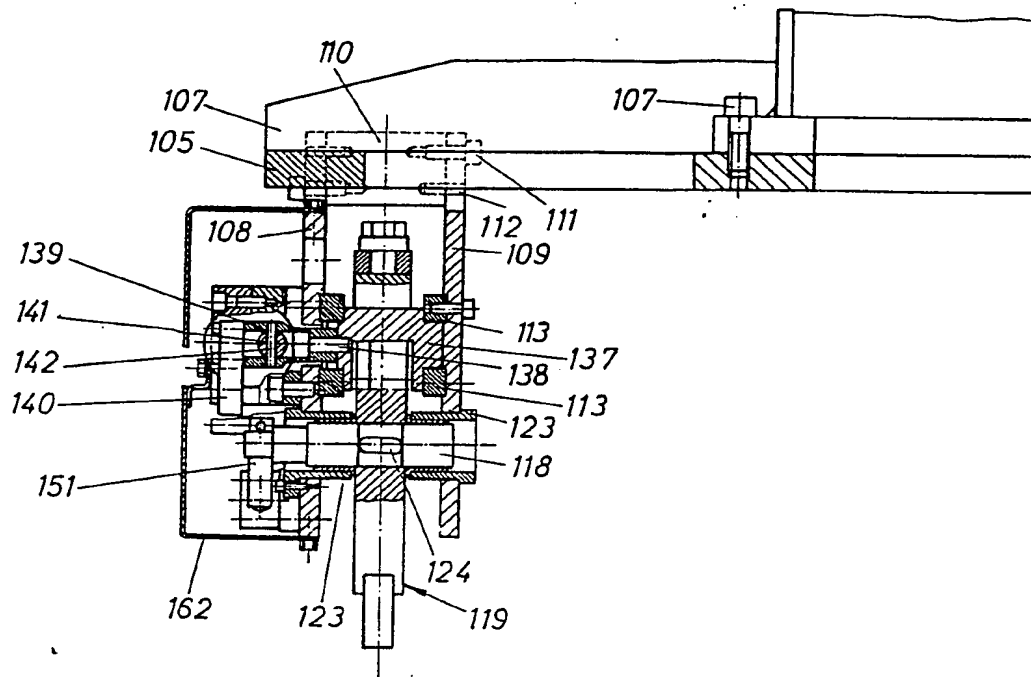


Fig.11

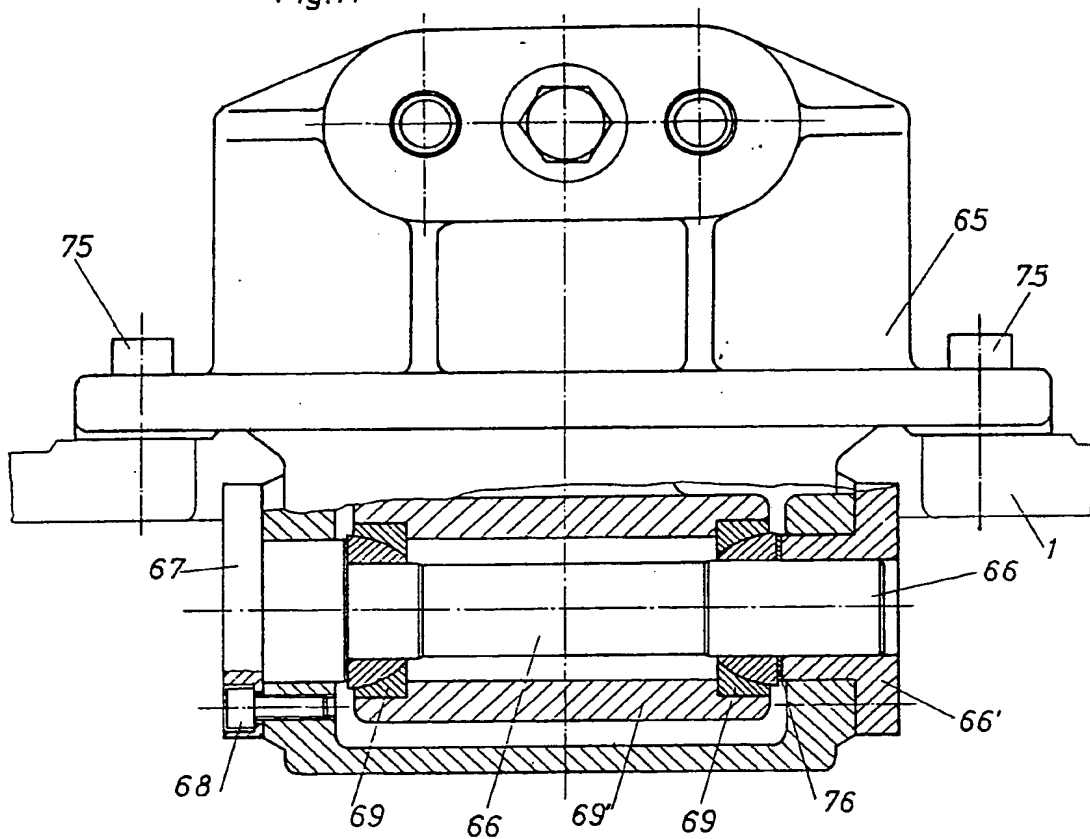
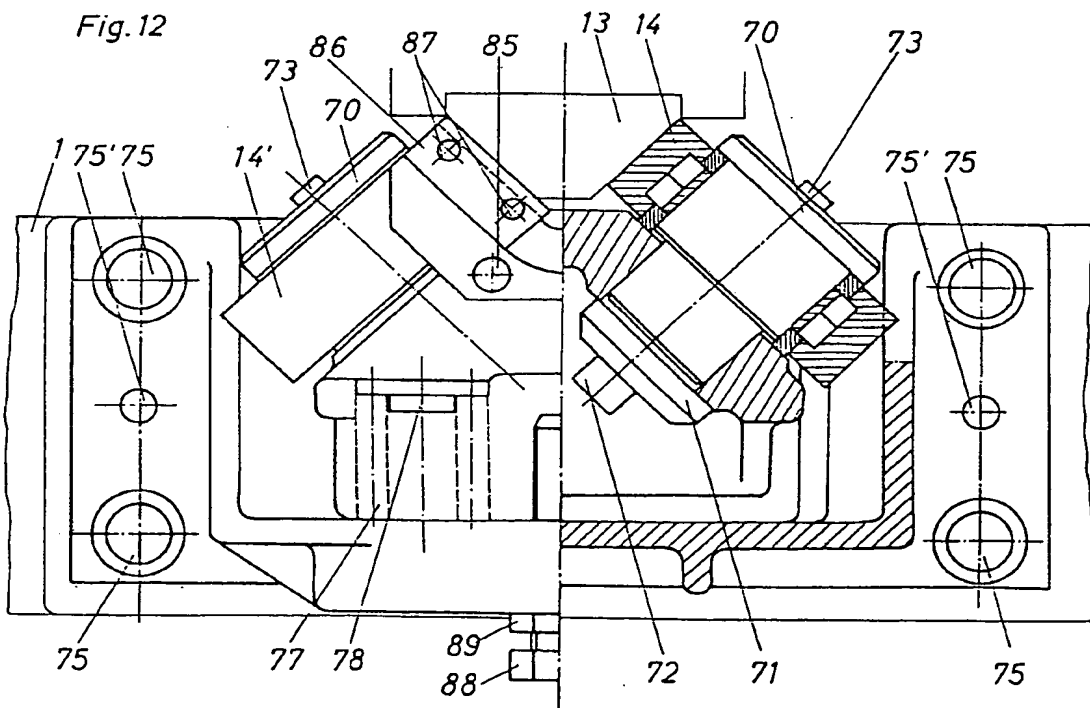


Fig.12





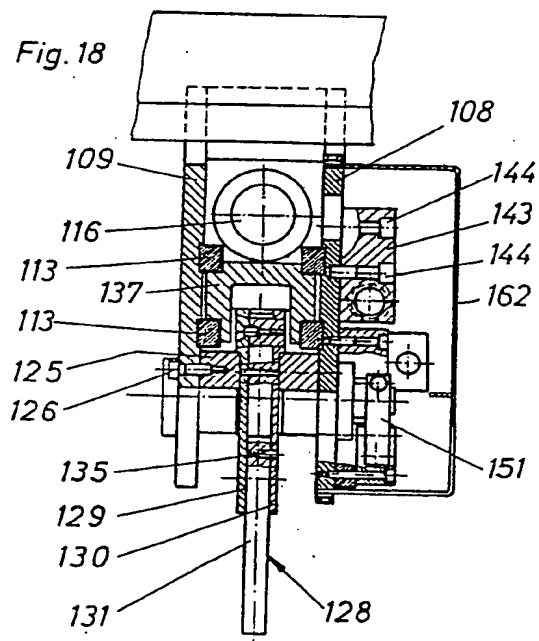
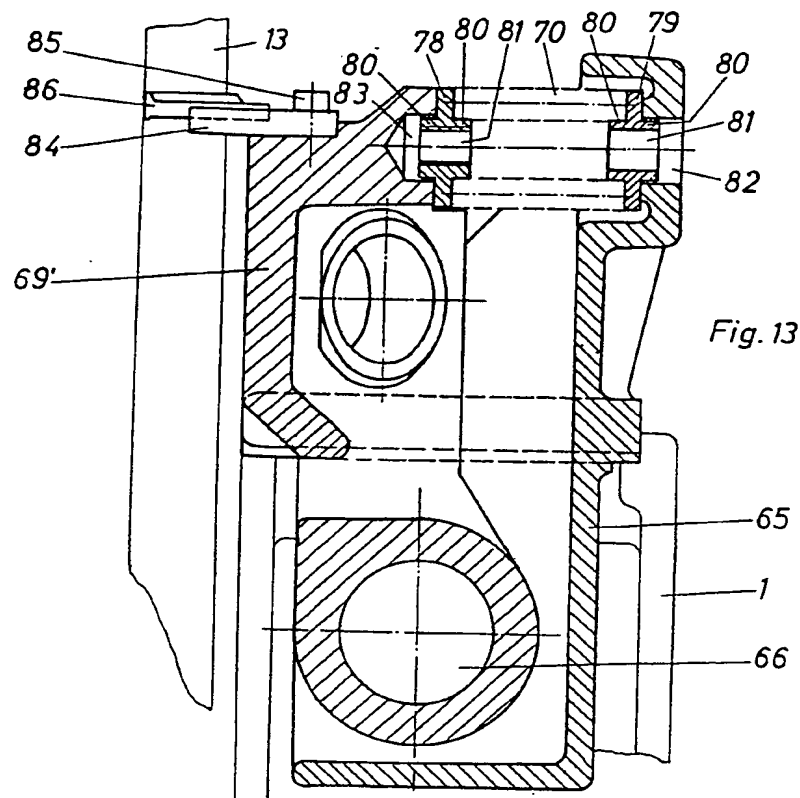


Fig. 7

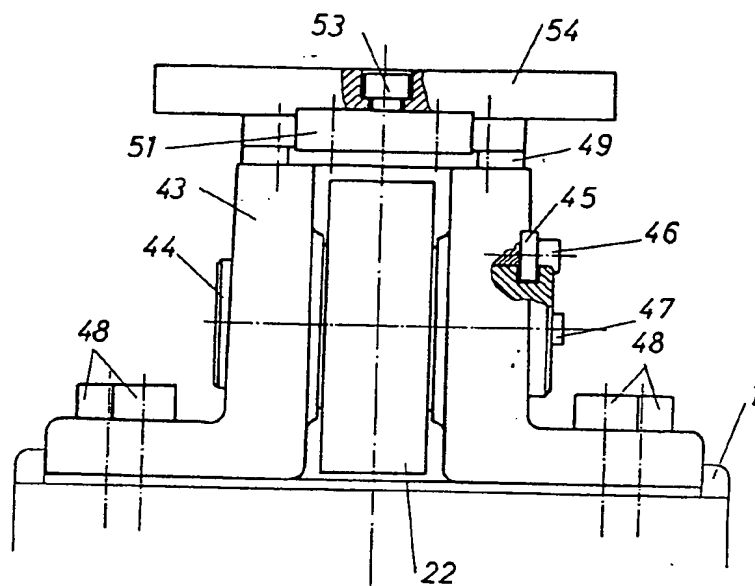


Fig.10

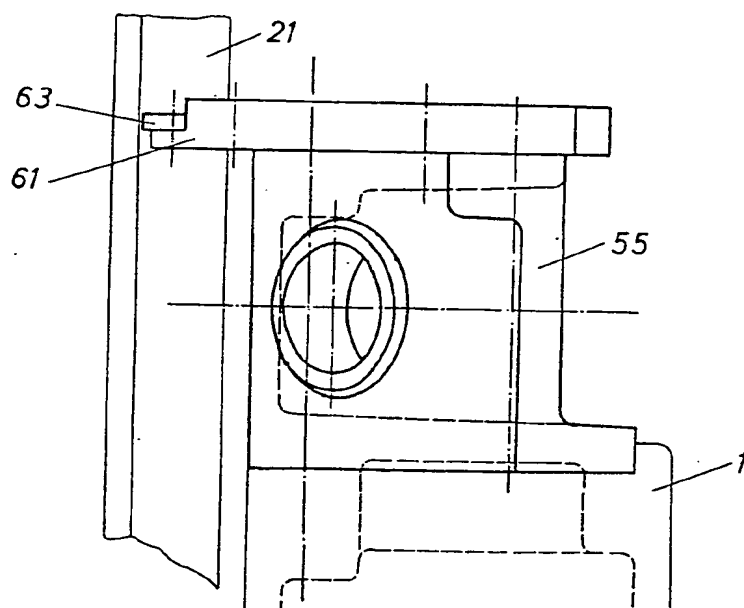


Fig. 8

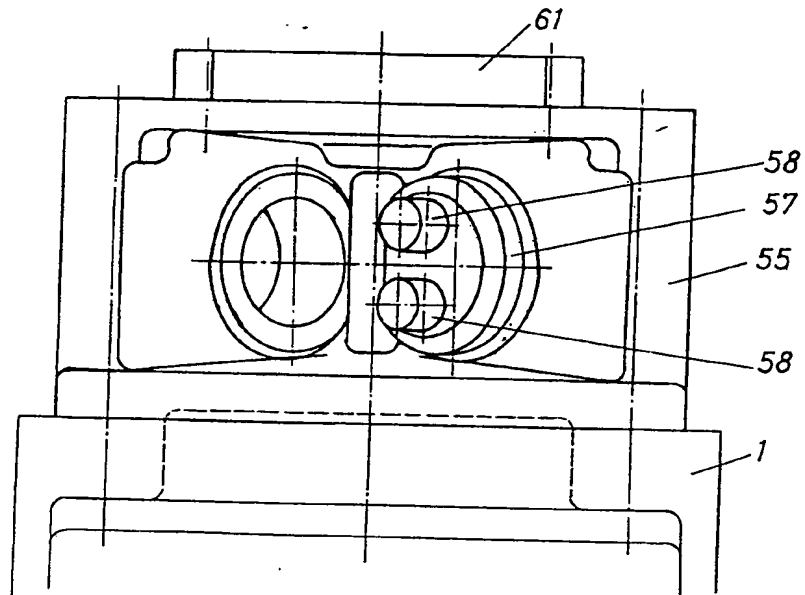
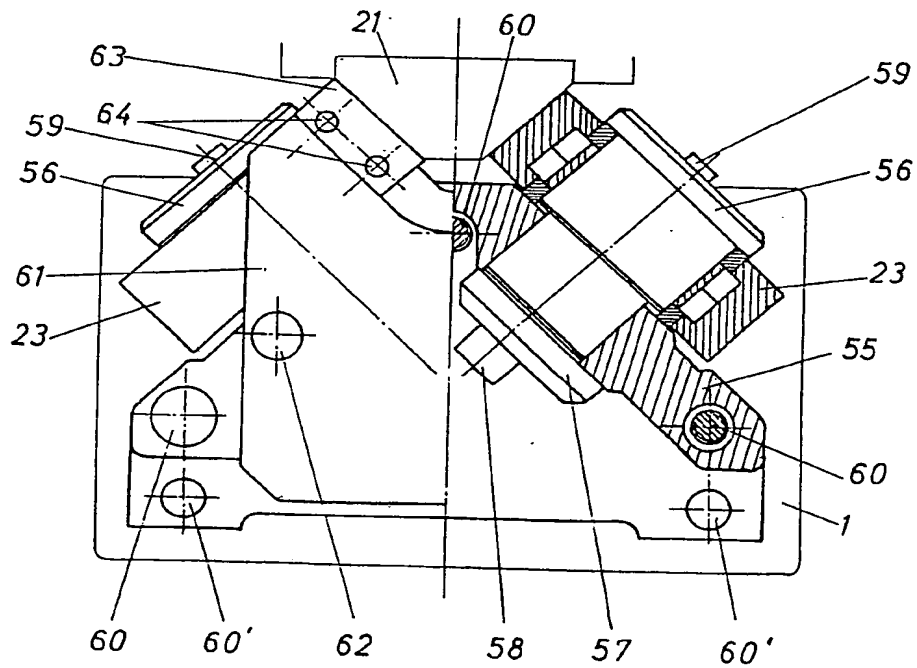


Fig. 9



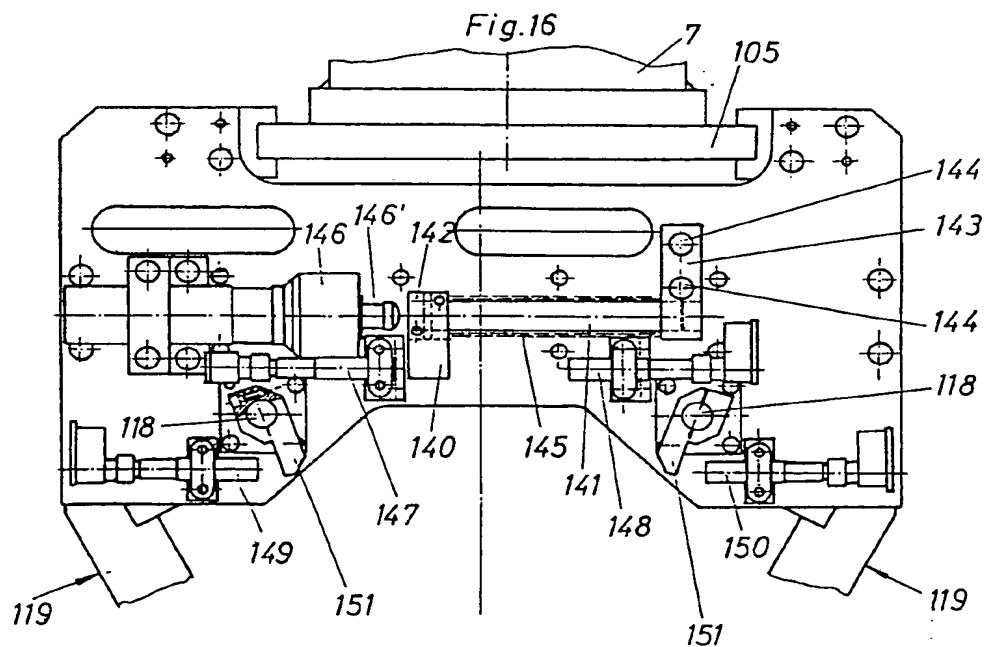
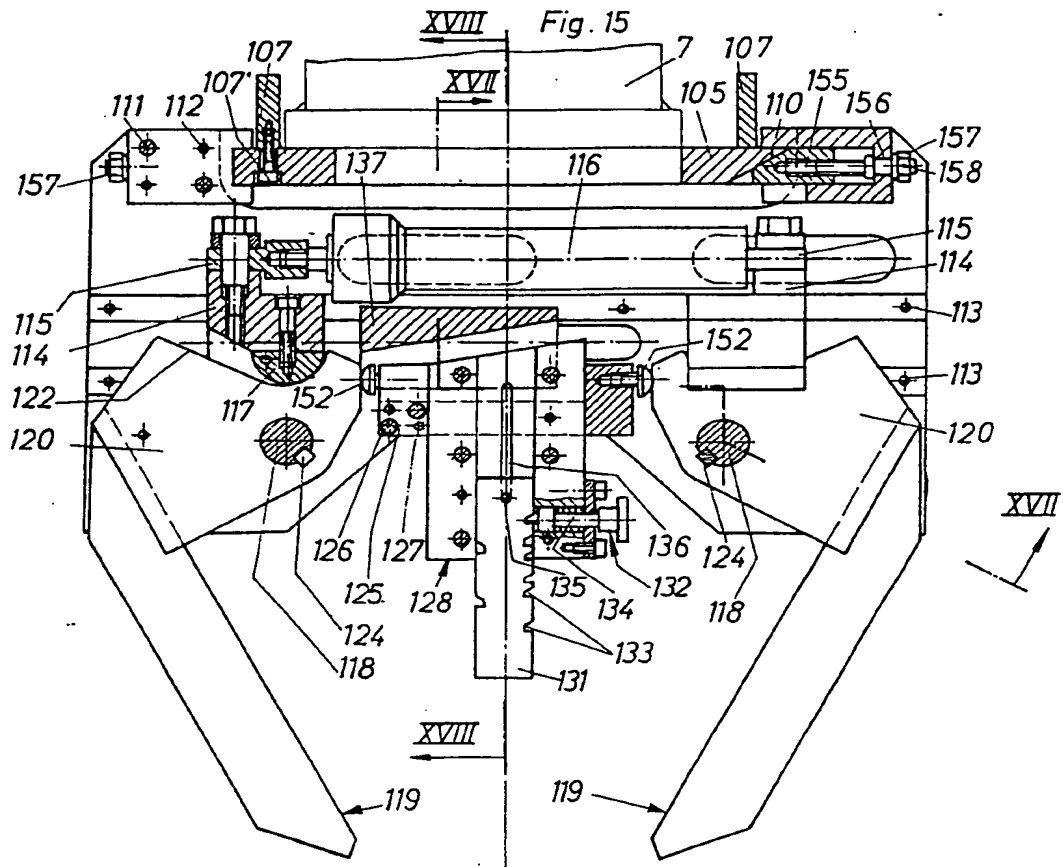


Fig. 14

